

ANGLE GRINDERS

■ STOCK No. 63129
63130

■ PART No. PT5115
PT8115

• INSTRUCTIONS •

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.



GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the power tool equipment, which should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the machine.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tool policy of continuous improvement determines the right to make modifications without prior warning.



THE TOOL COMPANY

ANGLE GRINDERS

■ STOCK No.63129
63130

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THE TOOL COMPANY

DECLARATION OF CONFORMITY

We

Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.
SO53 1YF. England.

Declare under our sole responsibility that the product:

Stock Nos:- 63129 & 63130.

Part No:- PT5115 & PT8115.

Description:- Angle Grinder.

To which this declaration relates is in conformity with the following directive(s)
73/23/EEC & 89/336/EEC.

With reference to: EN55014-1:1993+A1+A1, EN61000-3-2:1995+A1+A2,
EN61000-3-3:1995 & EN55014-2:1997.



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JOHN DRAPER
Managing Director

07/2000



SPECIFICATION

Whilst every effort has been made to ensure accuracy of information given in this manual is correct at the time of going to print, the Draper Tools policy of continuous improvement determines the right to change specification without notice.

Part No.	PT5115	PT8115
Stock No	63129	63130
Output.....	500W	860W
Input	230V/50Hz	230V/50Hz
Diam. Disc	115mm	115mm
Bore	22.2mm	22.2mm
Spindle thread.....	M14	M14
Speed (no load)	11,000rpm	11,000rpm
Sound pressure level	100.2dB(A)	105dB(A)
Sound power level	87.2dB(A)	92.1dB(A)
Vibration level	2.5m/s ²	2.5m/s ²
Weight.....	1.6kg	2.1kg

WEAR EAR PROTECTION AND GOGGLES



GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase.

Should the machine develop any fault, please return the complete tool to your distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF England.

Telephone (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorized Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you produce a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

Note: These tools are intended for domestic use only.

POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (240V)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an **ASTA** approved BS1362 fuse must be used of the same rating, marked thus **ASTA**.

The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED.

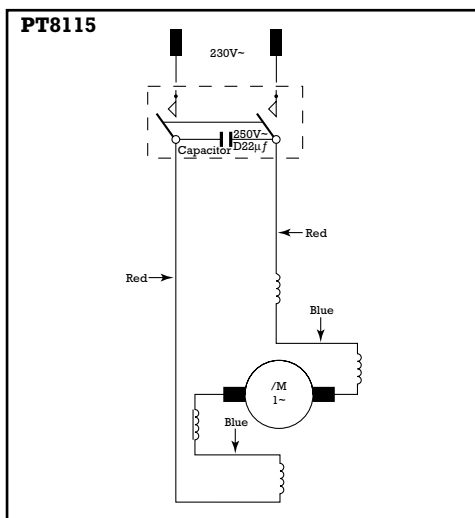
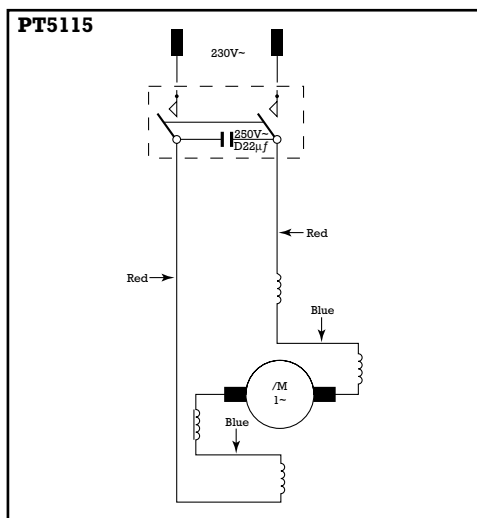
Blue – Neutral, Brown – Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

WIRING DIAGRAM



GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

WARNING

Please read the following instructions carefully, failure to do so could lead to serious personal injury.

IMPORTANT

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. KNOW YOUR POWER TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

3. AVOID DANGEROUS ENVIRONMENTS

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

4. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

5. STORED TOOLS

When not being used, all tools should be stored in a dry, locked cupboard or out of the reach of children.

6. WEAR PROPER CLOTHING

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

7. USE SAFETY GOGGLES (Head Protection)

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

8. NOISE LEVELS

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

9. VIBRATION LEVELS

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

10. DUST EXTRACTION

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

11. PROTECT YOURSELF FROM ELECTRIC SHOCK

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

12. STAY ALERT

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

13. WHEN WORKING OUT OF DOORS

Only use extension leads designed for that purpose.

14. ACCESS TO MAINS SOCKET

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

15. DISCONNECT POWER TO THE TOOL

When not in use, before servicing and when changing accessories such as cutters, etc.

16. AVOID ACCIDENTAL STARTING

Make sure the switch is in the OFF position before plugging the machine into the power supply.

17. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

18. DO NOT ABUSE THE CORD

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges.

19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

20. CHECK DAMAGED PARTS

Check for damage to parts, breakage of parts, mountings and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

21. KEEP GUARDS IN PLACE

And in working order.

22. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

23. USE RECOMMENDED ACCESSORIES

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

24. REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

25. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate the tool.

26. DO NOT OVERREACH

Keep proper footing and balance at all times.

27. USE RIGHT TOOL

Do not force the tool or attachment to do a job for which it was not designed.

28. DO NOT FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

29. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

30. WHEN DRILLING OR SCREWING INTO WALLS

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

IMPORTANT NOTE

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution !

GETTING TO KNOW YOUR ANGLE GRINDER



- | | | |
|------------------|---------------------------|----------------------------|
| 1. Rating plate | 5. Spindle lock button | 8. BS moulded plug & cable |
| 2. On/off switch | 6. Disc (sold separately) | 9. Disc change wrench |
| 3. Hand grip | 7. Guard | |
| 4. Side handle | | |

OPERATION & USE

IMPORTANT – Make sure that the mains voltage matches the voltage stated on the machines rating plate.

FITTING THE GUARD

Before fitting the disc to the machine, the protective guard must be fitted and adapted to working requirements.

Fitting the guard:

- Fit the collar of guard (D) on flange (E), the guard can only be fitted on, in one position. Line up the lugs, insert and twist to your preferred position.
- Tighten screw (F) make sure that the guard is securely fixed to the flange. (Fig.2).

CAUTION

Never fix the guard with the splinter deflector facing outwards.

FITTING THE ABRASIVE DISC

Fit flange (I) and ensure it engages with the flats on the spindle (K). (Fig.2).

- Place the disc on the shaft.
- Lock the spindle with button (H) on the head of the machine. (Fig.3).
- With the spindle locked, screw the flange nut (G) on to the spindle (NOTE: Boss towards grinding disc, and away from cutting disc) and then tighten with pin spanner which is supplied with the machine.

REMOVING THE DISC

In order to replace the disc, carry out the above procedure in reverse.

Fig.2

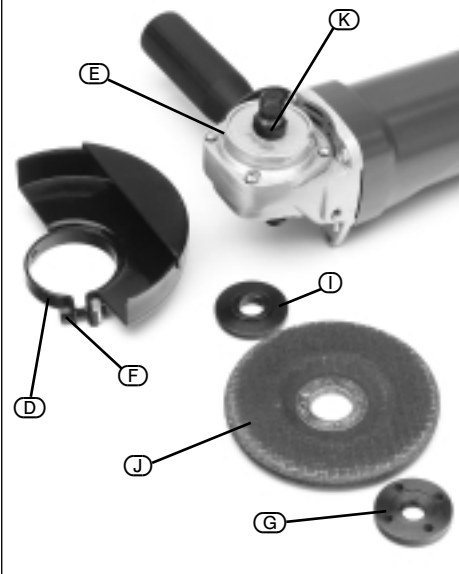


Fig.3



OPERATION AND USE

SWITCH

To turn the machine on, press the switch (K) forward until it locks on. (Fig.4).

To release the lock, push the back half of the switch down, until it springs backwards, switching off the grinder.

ROUGHING

When performing roughing operations, it is advised to maintain the disc tilted at an angle of approximately 30° in relation to the work surface. (Fig.5).

NOTE: Only use grinding discs for this operation.

IMPORTANT

Excessive pressure on the machine does not necessarily result in higher working speed, on the contrary, it increases the wear on the disc and can damage the grinder.

CUTTING

When cutting do not incline the grinder and do not jam the grinder on the work surface. The cutting edge of the disc must be in perfect condition (Fig.6). (For hard stone a diamond-tipped grinding wheel is recommended.)

SIDE HANDLE

For reasons of safety, when working with this type of electric power tool, the operator must always use the side handle.

In order to fit the side handle on the grinder, insert it into one of the threaded seats in the aluminium head and screw in clockwise until fully tightened.

IMPROPER USE

The functions and use of this tool are those exclusively indicated in this manual.

Fig.4.



Fig.5.



Fig.6.



Fig.7.



MAINTENANCE & PART REPLACEMENT

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The tool bearings and gears are life-long lubricated. The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets with hands. After use disconnect the tool from the power supply and clean carefully, use compressed air through ventilation slots.

DISPOSAL

At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to the standard regulations of the country in which it is being used, and that the disposal operation is carried out by specialized personnel following authorized guidelines.

In all circumstances:

- Do not abandon in the environment;
- Do not dispose of together with household waste;
- Contact your local authority recycling centre

WARNING

Disconnect the plug from the power supply socket before replacing any parts.

IMPORTANT:

All operations should be performed by an authorized person.

OPTIONAL ACCESSORIES

STEEL GRINDING DISCS

PART No.	Stock No.	Diameter	Bore	Thickness	Packed
GDM	58287	115mm	22.2mm	6.0mm	N/A
GDMP	58299	115mm	22.2mm	6.0mm	3 Piece

STEEL CUTTING WHEEL

PART No.	Stock No.	Diameter	Bore	Thickness	Packed
CWM	58317	115mm	22.2mm	6.0mm	N/A
CWMP	58327	115mm	22.2mm	6.0mm	5 Piece

STONE GRINDING DISC

PART No.	Stock No.	Diameter	Bore	Thickness	Packed
GDS	59088	115mm	22.2mm	6.0mm	N/A
GDSP	59089	115mm	22.2mm	6.0mm	3 Piece

STONE CUTTING WHEEL

PART No.	Stock No.	Diameter	Bore	Thickness	Packed
CWS	58337	115mm	22.2mm	6.0mm	N/A
CWSP	58347	115mm	22.2mm	6.0mm	5 Piece

WIRE CUP BRUSH

PART No.	Stock No.	Diameter	Thread	Max. RPM
346	19077	75mm	M14	13,000

CRIMPED WIRE CUP BRUSH

PART No.	Stock No.	Diameter	Thread	Max. RPM
CB61C	52635	60mm	M14	11,000
CB80C	52636	80mm	M14	8500
CB100C	52637	100mm	M14	8500

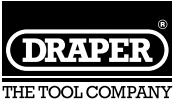
TWIST KNOT WIRE CUP BRUSH

PART No.	Stock No.	Diameter	Thread	Max. RPM
CB61T	52631	60mm	M14	11,000
CB80T	52632	80mm	M14	8500
CB100T	52633	100mm	M14	8500

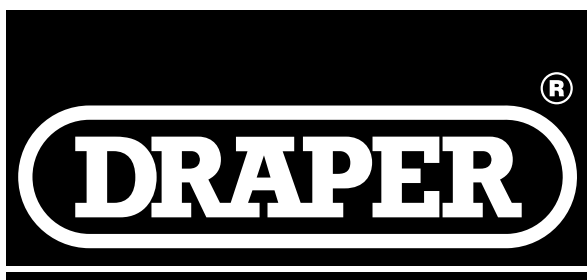
DIAMOND TIPPED BLADES

PART No.	Stock No.	Diameter	Construction	Application
DB4001	55327	115mm	Sintered	Value
DB6001	55302	115mm	Sintered	General purpose
DB6101	55314	115mm	Sintered	Gen. purpose – smooth cut
DB6201	55311	115mm	Sintered	Wet/dry
DB5001	55329	115mm	Laser	Mortar Rake
DB8001	55317	115mm	Laser	General purpose
DB8401	55320	115mm	Laser Premium	Abrasive
DB8404	55322	115mm	Laser Premium	Hard

**FOR FURTHER INFORMATION ON ALL ACCESSORIES
PLEASE SEE YOUR DRAPER CATALOGUE**



NOTES



THE TOOL COMPANY

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YOUR DRAPER STOCKIST

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